

## Abstract

A fuel injector (1) for fuel injection systems of internal combustion engines has a solenoid (10), a valve needle (3) pressed in the closing direction by a return spring (23) to activate a valve closing member (4), which together with a valve seat surface (5) forms a sealing seat, and an armature (20) in friction-locking connection with a valve needle (3). A first guide sleeve (35) and a second guide sleeve (36) are connected to the valve needle (3). The armature (20) has radial play with respect to the valve needle (3) as a result of the central opening (34), the diameter of which is greater than the diameter of the valve needle (3).

(Figure 3)